PATENT ABSTRACTS OF JAPAN

(11)Publication number:

08-333160

(43) Date of publication of application: 17.12.1996

(51)Int.CI.

CO4B 35/49

H03H 3/02

(21)Application number: 07-136488 (71)Applicant: MATSUSHITA

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(22)Date of filing:

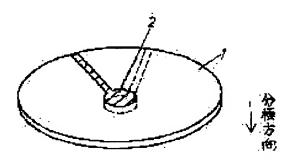
02.06.1995

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(54) PIEZOELECTRIC CERAMIC COMPOSITION AND PRODUCTION OF PIEZOELECTRIC RESONATOR USING THE SAME

(57)Abstract:

PURPOSE: To obtain a piezoelectric resonator having small variation in piezoelectricity and resonant frequency in a humidified atmosphere and excellent in thermal shock resistance. CONSTITUTION: A silver electrode 2 is formed on a piezoelectric ceramic 1 obtained by polarizing a sintered material of a piezoelectric ceramic composition comprising a main component expressed by



Pb(Zn1/3Nb2/3)A(Sn1/3Nb2/3)BTiCZrDO3 (A=0.03-0.48, B=0.01-0.25, C=0.25-0.625, D=0.25-0.625; A+B+C+D=1) added with 0.5-10.0wt.% of a compound of Pb(Me1/2Te1/2)O3 (Me is at least one kind of metal selected from the group consisting of Mn, Co, Ni and Cu), annealing at 0.4–0.8 times of Curie temperature for ≥1hr and holding at a normal temperature for ≥48hr and polishing.

LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

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